

4-1-1993

BS News

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Recommended Citation

(1993) "BS News," *Building Services News*: Vol. 32: Iss. 4, Article 1.

doi:10.21427/D7GH60

Available at: <https://arrow.tudublin.ie/bsn/vol32/iss4/1>

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BSNews

IRISH BUILDING SERVICES NEWS

Clyde Systems Liquidation Shock

The unexpected liquidation of Clyde Systems Ltd earlier this month sent shock waves throughout the building services industry and, more especially, the supply sector. Given the trading scenario as outlined by *BSNews* in our last issue, company closures were — and still are — inevitable but, for such a long-established and apparently secure firm to go, took many by surprise.

As yet the liquidator — John Kenny of John Kenny & Co, 29 Kildare Street, Dublin 2 — has issued no formal statement but we understand that there may indeed be limited funds available for preferential creditors. However, the picture for unsecured creditors looks less optimistic.

While there are many rumours circulating as to the final deficit presented in the statement of affairs given out at the poorly-attended creditors meeting in Buswells Hotel on 6 April last, *BSNews* has not seen a copy and consequently cannot comment directly on the matter.

However, the sums owing are believed to be substantial, the principal unsecured creditors thought to be the two key agency lines formerly held by Clyde Systems — Riello and Ferrol. Despite our efforts, we failed to get a statement from either party.

As always in the case of major liquidations, the realisation of debtors and funds from the sale of assets and stock will have a significant influence on the final outcome. In the case of Clyde

Systems, the debtor list is understood to be substantial, the amount concerned particularly large.

It is also known that the liquidator is open to offers (preferably in large lots) for stock worth a total of £190,000.

BSNews hopes to have more detailed information on the liquidation — and a progress report from the liquidator — in our next issue.

Season's in the Air

Have you ever suffered from sick building syndrome or poor air quality/ventilation in the workplace? If the answer is yes, then Season Control Ltd can offer the following range of



Kieran Butler has left Walker Air Conditioning Ltd and joined Finheat Ltd as a director of the company. More details in our next issue.

products for all air conditioning needs.

DP40 panel filters and Hi-Life Venti Pak bag filters, ranging in efficiency from 45% to 95% (for filtering fine dust particles).

HEPA filters suitable for terminal duct mounted units and clean room applications, 95% to 00.099% efficient (for filtering particles down to 0.3 microns).

Carbon Filtration technology -- the new DPCC Vaporsorb will remove toxic and dangerous gases and vapours from the atmosphere and is an air purifying device. Used for removal of smog, fugitive odours, diesel exhaust fumes and formaldehyde.

Multi-air range of handling units responds to most heating, ventilation and air conditioning requests, both commercial and industrial, standard and non-standard. Also available in the multi-air range are oil and gas-fired space heaters and unit heaters.

MANOTHERM - THE CHANGING FACE OF INSTRUMENTS



Pictured above is the new Cyclops 300AF compact, portable radiation thermometer. Incorporating a revolutionary autofocus facility, it utilises the latest optical technology from Minolta to advance spot temperature measurement in terms of both accuracy and ease of use. It also has several additional features, bringing new levels of flexibility never before seen in this type of instrument. It is available in Ireland from Manotherm Ltd who themselves have been to the forefront in bringing state-of-the-art instrumentation, control and measuring devices to the marketplace for 35 years (see page 7).



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Building Services News*

ISSN 0791-0878

Published by:
Pressline Ltd,
5-7 Main Street,
Blackrock, Co Dublin.
Tel: 01-2885001/2/3
Fax: 01-2886966

Editor: Pat Lehane
Editorial Assistant: Imma Manganella

Advertisement Manager: Joe Warren
Telephone Sales: Ita Moore

Origination and Design:
Pressline Ltd. Tel: 01 - 2885001

Subscription: One Year — £25

Printed by: Kilkenny People Ltd,
Kells Inch, Kilkenny.

© All editorial contents and all
advertisements prepared by the publishers,
Pressline Ltd.

* Incorporating Irish Heating & Ventilating
News.

Readership Data

Irish Building Services News (formerly Irish H&V News) is Ireland's only Building Services magazine providing coverage of heating, ventilating, air conditioning, refrigeration, sanitaryware, plumbing, maintenance and environmental industries. It is the only publication catering exclusively for these industries and its circulation includes members of the following:-
Chartered Institution of Building Services Engineers (CIBSE);
The Mechanical Engineering & Building Services Contractors' Association (MEBSA);
RIAI-registered Architectural Practices;
The Association of Consulting Engineers of Ireland (ACEI);
The Mechanical Engineering Contractors' Association;
The Institute of Domestic Heating Engineers (IDHE);
The Registered Heating Contractors Association;
The Maintenance, Energy & Environmental Technology Association (MEETA);
The Institute of Plumbing;
The Irish Home Builders Association (IHBA);
Builders Merchants/Trade Supply Outlets.

In addition, Irish Building Services News circulates to independent building services contractors and key executives in industry. Government, Semi-State and local authority bodies. Essentially, our circulation is virtually saturation coverage of all those with an interest and/or involvement in the industry.

et al.: BS News

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TRADE NEWS

Colt moves to new premises in Bray; Environment 2000 for major dealing centre; New Argo series from Tempair; Toshiba: RSAS replacements; Darcy retires; 12-hour, 24-hour guarantee; ABB at the IDHE; Formost — for all applications; HCF expands chiller range; Mitsubishi Electric open-day; Potterton Myson Prima B & C; SMC/CIBSE student awards; Export opportunity for services suppliers; Trends from ISH.

YOUR DREAMS ARE ABOUT



PRIMA THE ONLY COMPLETE RANGE OF LIGHT

<https://arrow.tucl.ie/bsn/vol32/iss4/1>
DOI:10.21427/D7GH60

UT TO BECOME REALITY



Just lie back and think about everything you've ever wanted from your business.

Well, here's something to take you closer.

The new Potterton **Prima** family has the power to set you on that path where even the wildest dreams come true.

No more sleepless nights trying to choose which boiler will suit a particular customer situation.

All the choices are here. And they're all called **Prima**.

Lightweight. Cast iron. With outputs to suit any size of home. And with enough versions to make sure you never suffer with the flue again.

Prima F is the original fanned flue model we introduced early in 1992. Now we've added two brand new models - **Prima B** with a balanced flue, and **Prima C** for conventional flues.

Dream machines, they're a dream to install using the same easy to fit techniques that made the Profile popular with installers everywhere.

And you can rest easy knowing the **Prima** family is backed by the Potterton name, renowned for high quality, reliable cast iron boilers for more than 100 years, and the sort of nationwide spares and support network you'd expect from a company with more than 3 million boilers installed in the UK.

Prima - The family to turn dreams into reality.


POTTERTON MYSON
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FOR FURTHER INFORMATION PLEASE CONTACT SALES OFFICE
POTTERTON MYSON LIMITED (IRL) LTD.
PARKMORE INDUSTRIAL ESTATE, LONGMILE ROAD, DUBLIN 12.
TEL: 01 509075. FAX: 01 553629.

WEIGHT CAST IRON BOILERS

PRODUCT REVIEW

BATHROOMS

Right: The 2-panel corner slider unit from the new-look Showerlux LSO 2002. details from O'Brien Marketing Ltd or Showerlux direct.

An Ever-Expanding Marketplace

With the bathroom elevated to a new level of importance and its status now rivalling that of the kitchen and bedroom in consumers' minds, a whole new area of potential has opened up for suppliers of bathroom fixtures, fittings and accessories.

Over the last 12 to 18 months this market segment has shown remarkable stability in the face of an otherwise very difficult trading environment and is now poised for significant development and expansion in the coming 12 months.

New product development and innovation has continued apace with this growth pattern, a trend very much in evidence during the recent ISH Fair in Frankfurt.

Electronics were very much in evidence, being employed primarily to save water and energy. The luxury bath has reached a very high standard while the choice in smaller, purpose-designed baths for installation in rooms where space is at a premium has also greatly increased.

Additionally, ergonomically-shaped bathtubs, jumbo-sized shower-baths with built-in seat and hydromassage unit or steam-injection, and combined WC and bidet units are coming to the fore.

Bathrooms, fixtures, fittings and accessories represent one of the few buoyant sectors within the building services sector at present and, what's even more encouraging, is the manner in which the industry at large has coordinated its efforts to see the full potential realised.

New Look for Showerlux LSO

Prices that are 20% lower than 1992's are guaranteed to make Showerlux's relaunched LSO 2002 sliding door a real winner with contract specification work and for applications where easy to install, maintenance free products are a necessity.

The LSO 2002's unique lower track system allows the doors to swing inwards exposing the whole track for cleaning, a real plus point for hotel, leisure and hospital applications where hygiene and ease of cleaning are high on the list of priorities,

2002 doors carry all the usual features associated with Showerlux's more expensive products. In built adjustment of up to 25mm for out of true walls. Full height magnetic seals on all closing edges and totally concealed fixings for a smooth, easy to clean finish..

All 2002 units are delivered to site pre-assembled with full fixing kit, instructions and even a tube of silicone sealant.

A 3-panel sliding door with corresponding side panel and a 2-panel corner slider unit are available. The door is available in sizes from 700mm to 1200mm and the corner slider in sizes



700mm to 900mm. Both units can be specified in either styrene or clear tempered safety glass, tested and approved to BS6206 Class A, and with a choice of gold or silver profiles.

New literature which includes full details of products specification, sizes, screen and colour options is now available from Showerlux UK direct at Tel: 00-44-203-639400; or O'Brien Marketing Ltd, Dean Street, off Oliver Plunkett Street, Cork. Tel: 021-270277; Fax: 021-270844.

Redring Superflow

The main attraction of the Superflow 3000 power shower from Redring is simple one-point installation. This is possible because the mixer valve, motor, pump and transformer are all incorporated into one unit cutting installation time down to just three to four hours.

The Superflow 3000 also offers particularly useful and attractive design features.

The temperature control lever is user-friendly. Designed with the elderly and infirm in mind, this large lever is easy to grip and turn and allows the water temperature to be finely turned.

DOCTOR WATSON'S et al.: BS News SHOWERLUX HOME.



Who's behind its biggest ever promotional push in Ireland this year, giving the trade better quality, range and support than ever before? Showerlux Homes. Ask Dr. David Watson of Solihull. The good doctor stands proudly beside the Showerlux Interlude. Like all Showerlux enclosures, it has those extra special features you've come to regard as standard with Showerlux products. A stunning choice of finishes. Superb strength. Exceptional durability. All of which add up to tremendous value-for-money. And, as you'd expect with Showerlux, installation's no mystery. Every panel comes pre-assembled, for swift and simple fitting. Indeed, with its superb engineering, ingenious design and meticulous attention to detail, a perfect, hassle-free fit's possible in as little as fifteen minutes - a fraction of the time required to install rival enclosures. Small wonder Showerlux is just what the doctor ordered. Ring us, quoting ref. SL7, at our UK office number on 0203 639400 for details of your local Showerlux provider or stockist. Alternatively send the coupon back Freepost. And see why it's definitely worth investigating Showerlux Homes.

ORIGINAL
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Design Perfection

Please send me more information. Showerlux UK Ltd., FREEPOST, Sibree Road, Coventry CV3 4BR, England.

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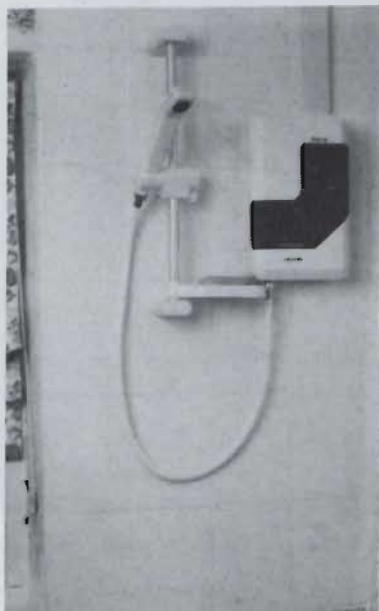


PRODUCT REVIEW

BATHROOMS

An additional feature is a water flow control. The flow rate at 11 litres per minute can be regulated from full to half flow for personal preference and economy without the water temperature being affected at all.

All Superflow 3000 power showers have an in-built maximum temperature limiter — a fail-safe device which can be set by the installer to guard against excessive temperatures from the central hot water store. Redring have designed the Superflow 3000 to run on a carefully selected motor which combines the maximum possible shower performance with an extremely low operating noise.



Redring Electric Plus 95 electric Shower from GEC

The Superflow comes complete with colour co-ordinated adjustable shower head which offers a choice of three luxurious spray settings.

Details from GEC Distribution Ltd, 155 Hendrick Street, Dublin 7.
Tel: 01-775413; Fax: 01-775601.



Redring Electric Powerstream Water Heater from GEC

Ideal Bathrooms — National Bathroom Centre

Ideal bathroom's national showrooms includes the world's top names in bathroom products, showers, furniture and tiles. Established by K M Reynolds, the new centre is situated in Erne Place, close to Holles Street Hospital and Merrion Square, and is one of the most modern bathroom showrooms in Europe.

It has over 5,000 sq ft of showroom space and 35 individual settings featuring bathroom and sanitary ware; showers; bathroom furniture; tiles; and a spectacular display of working brassware.

Each bathroom setting is individually designed and presented with the most modern concepts in baths, basins, bidets and other sanitary ware perfectly coordinated with subtle wall and floor tiles and bathroom furniture. Working units include the stimulating whirlpool baths, pulsating showers and the very relaxing steam showers.

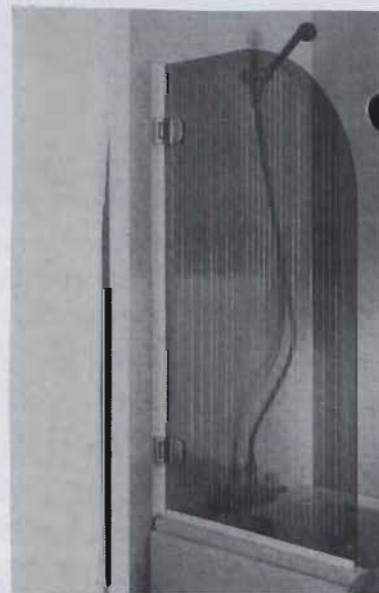
Tiles play an important role in the modern bathroom and in Ideal Bathrooms there is a specialist section with a range of exclusive Villroy & Boch floor and wall tiles. The emphasis is on quality and

the array of tiles and borders mix and match to present a stunning beauty that will embellish any bathroom. In addition, there is a special section entirely devoted to architectural and specifiers' tiles and mosaics. There is also a display of quality kitchen sinks in both ceramic and asterite.

Among the prestigious international brands on display in Ideal Bathrooms are Ideal Standard, Villeroy & Boch, Sottini, Royal Venton, Trevi, Hans Grohe, Dornbracht, Burg, Keuco, Porcher, W Adams, Imperial, Keelings, Adamsez and Steam Mist.

Bathroom retailers, architects and builders can utilise the new facility by bringing their clients to the showrooms. To assist this process, a special specifier's working area has been incorporated in the layout and full meeting facilities are available. Alternatively, the specifier or retailer can ask showroom staff to look after their clients.

Appointments for customers can be made by phoning Ideal Bathrooms at 01-764445, or by Fax: 01-764344. The centre has 20 car parking spaces for customers.



Ideal Standard — Rialto shower screen with stripes pattern on grey tinted glass with chromium hinges, from Ideal Bathrooms.

The Instrumentation Specialists

For the past 35 years Manotherm Ltd has provided one of the most comprehensive instrumentation product portfolios available to industry throughout Ireland.

From its headquarters in Dublin and branch office in Belfast, the company markets microprocessor and programmable ramp controllers, thermocouples, resistance and infra-red thermometers, thermostats, pressure switches, flow meters, vacuum and compound gauges, humidity meters, control valves, air velocity instruments, power supplies, calibration baths, signal conditioning and isolators, data communication modules, together with calibration instruments and equipment, to name but a few of the products available.

Manotherm are appointed agents/distributors for some of the best known and respected names in the

instrumentation industry, including Johnson Controls, Digitron, Jordan Valves, West Instruments, Rustrak Recorders, Platon Flowbits, Isothermic Technology, Bindicator, Bourdon, ITT Barton, Dwyer, Drexelbrook, Electronite, Land Infrared, GEMS and the Danish based PR Electronics. Indeed, the company, despite being highly selective in its choice of suppliers and products,

represents around 40 of Europe's leading manufacturers.

With a staff complement of 17, including highly-trained technical representatives who are able to give expert advice on the various applications for

the equipment they sell, Manotherm's market spans the whole of Ireland with particular concentration on the general manufacturing, food, plastics, chemical, pharmaceutical, power generation, glass, automotive, and creamery Industries, together with the Universities. Manotherm also maintain a service

The company, despite being highly selective in its choice of suppliers and products, represents around 40 of Europe's leading manufacturers



Metz Mannheim precision pressure switch from Manotherm.

workshop while, at their Dublin headquarters, the extensive showroom/trade counter carries a substantial stock inventory on site at any given time.

Brian Harris of Manotherm has just completed a travelling "roadshow" which was organised by one of their supplies, Thommen Instruments of Switzerland.

A specially-fitted out van containing pressure calibration equipment relating to pressure, temperature, voltage and mill-amps visited chemical, power generation and pharmaceutical companies throughout Ireland on a comprehensive marketing campaign which enabled practical demonstrations of equipment at the customer's premises.



New model 15VDO-OPT optical position transmitter from Manotherm Ltd.



The new Cydops 300AF portable radiation thermometer from Manotherm Ltd.

IDEAL CONCORD SUPER SERIES 4



IDEAL CONCORD SUPER BOILERS HAVE SINCE THEIR INTRODUCTION OVER A DECADE AGO PROVED THEIR EFFICIENCY AND POPULARITY IN HUNDREDS OF COMMERCIAL APPLICATIONS. THE SERIES 4 IS NO EXCEPTION AND OFFERS:-

■ 19 variants with outputs from 50kW - 600kW (170,600 Btu/hr - 2,047,200 Btu/hr)

■ Vertical & Horizontal models

■ High efficiency 85%

■ Low Nox emissions

■ Designed to European Standards

■ Single flue outlet/complete package including Gas & Water headers

■ Low Noise

■ Space saving

■ Sequence Controlled

■ Optional Boiler Management System

■ Easy Installation & Servicing



Davies of Fairview, representatives in Ireland of Caradon Heating's product ranges, hosted a conference and exhibition as guests of the IDHE at the Engineers Club, Ballsbridge, over a 2-day period, recently. The first day's proceedings was carried in the last issue of BSNews, and the following article covers the second day of the conference.

Caradon Heating National Sales Manager Tony Mann outlined the £40 million development and launch programme for the company's new Stelrad Elite range of high efficiency radiators.

He highlighted benefits of the Stelrad Elite which included its "unrivalled paint finish, a low water content for fast heat-up, and convectors welded directly on to the waterways to further enhance performance".

Mr Mann emphasised Caradon Heating's connections with Ireland and especially its Listowel plant which manufactures components for the Stelrad Elite, and also for Stelrad radiator plants throughout Europe.



(Back Row): Tony Gillan (Glow HT); A C Mann (Caradon HT National Sales Manager); Ron Barker (Caradon HT Marketing Manager); Peter Adams (Stelrad Listowel General Manager); Michael Curley (T E Lynskey)

(Front Row): Pat Walsh (Bord Gais); Eamonn O'Brien (Jacobs + Partners); Jimmy Farrell (Bord Gais); Kevin Long (Davies of Fairview).

servicing, routine maintenance and installation. Access to the burners can be gained in less than four minutes because far fewer components now need to be removed.

Installation time has also been improved because the gas and water headers, which come as part of the boiler package, have

boiler to have its own built-in sequence control, which is designed to connect to an optional dedicated Ideal boiler management system due to be launched in the Summer.

Mr Barker highlighted a recent expansion of Caradon Heating's commercial and industrial ranges which has resulted in the introduction of:

Three new Ideal Concord ES atmospheric boilers; A new gas condensing boiler with outputs of 200kW to 460kW; A range of seven Senator calorifiers with capacities from 150 to 1,000 litres; A recuperator unit to enable the Harrier, Viceroy and the lower end of the Viscount range to operate in the condensing mode.

He also outlined the market-leading CX family of commercial boilers featuring:

The CX with an output range of 140,000 to 340,000 Btu/h; The CXD, offering all the benefits of the CX but also incorporating automatic ignition, providing the simplest of restart procedures for all users; The CXi, which increases the output range of the CX family by offering four sizes from 410,000 to 620,000 Btu/h; The CX-C commercial condensing boiler, which is 91% efficient in the condensing mode and 86% efficient when operating conventionally.

Mr Barker completed his presentation with a brief overview of Caradon Heating's wide range of high-efficiency domestic boilers which are available from Davies of Fairview.

DAVIES OF FAIRVIEW HOST CONFERENCE

Commercial and Industrial Boiler Range

Caradon Heating Marketing Manager Ron Barker discussed the company's commercial and industrial boiler ranges and gave particular emphasis to the Ideal Concord Super Series 4 modular boiler, which represents the most fundamental update ever carried out to the company's Concord Super range.

Every Ideal Concord Super is made up of a varying number of identical heat exchanger modules — from 1 to 12 — each with an output of 50kW. The modules switch on and off to accurately match changing load requirements.

The Series 4 has become the first commercial boiler in Ireland and the UK to receive CE certification, recognising approval to forthcoming European standards.

Mr Barker said the Super Series 4 has been designed to greatly improve ease of

been redesigned for easier alignment.

Like its predecessors in the range, the Super Series 4 has extremely low NOx emissions, which are well ahead of all forthcoming EC requirements. The new-look boiler features a wipe-clean control fascia incorporating LEDs for mains on, burner on, overheat and lock out.

The Ideal Concord Super range has enjoyed consistent success because of its high efficiency and compact design, enabling it to take up reduced floor area in boiler houses where space is restricted.

To meet the requirements of different plant rooms and maximise all available space, the modules of the Concord Super can be assembled in either vertical or horizontal format. With such flexibility and compact design, the Series 4 may take up as little as one-third of the floor area required by other commercial and industrial boilers.

The Series 4 is also the only modular

Below left: Group photograph of some of those attending the second day (given over to consultants) of Davies of Fairview recent day conference in the Engineers Club.

Below right: Declan O'Donnell, Managing Director, Davies of Fairview with Joe Noone, IDHE Chairman and Tony Mann, National Sales Manager, Caradon Heating.



UNDERGROUND HEATING

Silent Underground Revolution

It is a well known fact that people feel comfortable when their feet are warm and their heads are cool. Underfloor heating systems exploit this to the full, warming the walls and ceiling by radiation, and only the air by convection, all in one single operation.

Very low surface temperatures ensure safety for the elderly and infants, generating lazy convection currents and invisible radiated heat that envelops the rooms occupants.

Underfloor heating has been around for some time now but, despite its proven success in other countries — especially those with demanding requirements such as continental Europe, Scandinavia and Canada — it has yet to become popular in the UK and Ireland. This is in fact the fault of earlier, inefficient systems and also the many misconceptions surrounding the concept of underfloor heating.

Kee tubing being installed in a large timber-frame home in Portmarnock. The heating system is virtually completed before the house is even constructed.



Suitable for any room and any floor covering, it's just as happy in large, public areas, particularly places such as nursing homes where the hot surface of a radiator could be a danger to residents

However, An Irish-conceived, Irish-designed and Irish-manufactured system — called Kee radiant floor heating — is now rapidly gaining an international reputation as one of the most effective underfloor heating systems available worldwide, especially where fast

response is required. It is already well-established in Canada, Scandinavia, Russia and parts of Continental Europe and now, through the efforts of Ecotherm Ltd, is beginning to make similar inroads in Ireland.

Ecotherm Ltd is a sister-company of Heatcraft Ltd, an established Dublin-based contractor specialising in heating and mechanical services. Over a period of time Managing Director Paul O'Donnell evaluated and assessed a great many underfloor

systems before coming down very much in favour of Kee radiant floor heating because its best suited to the Irish climate.

Additionally, a CAD design service is available which entails a tailor-made solution — with all the attendant calculations — provided free of charge on disc format. The contractor/installer/project manager supplies all the relevant data on disc to Ecotherm who make all the necessary calculations and assessments, and return the disc with the underfloor heating requirements incorporated onto it.

Essentially, underfloor heating provides heat to the room(s) from tubes buried in the concrete slab or concealed under suspended floors. There are central manifolds that distribute the water from the boiler to the each zone.



INSTALLED BY

HEATCRAFT

88 Ranelagh Village,
Dublin 6.
Tel: 973695
Eircell 088-556150

UNDERGROUND HEATING

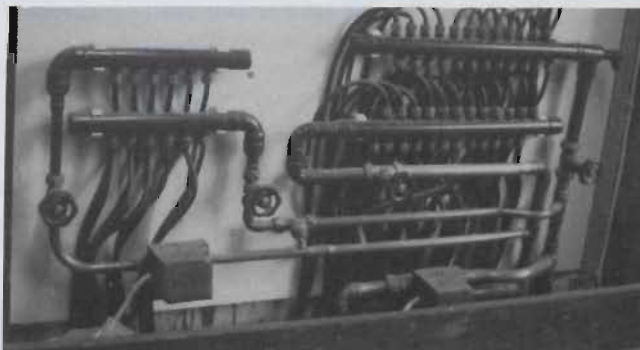
Underfloor heating will work with either carpets or plain floors.

To appreciate the advantages of underfloor heating it is necessary to understand the difference between convective and radiative heating. Very simply, with convective heating the heat emitter first of all heats the air in contact with it, and the air then circulates by convection, transferring its heat to the surfaces and bodies with which it comes into contact. With radiative heating the heat is largely radiated directly from the heat emitter to the surfaces and bodies within sight of it, without first warming the air — the air is then heated by coming into contact with the warmed surfaces and bodies. Since different surfaces in a room will be at different temperatures, and therefore emitting varying amounts of radiant heat, the comfort

temperature of a person in the room will depend upon the combination of the air temperature and the mean radiant temperature within the room — within certain limits, the higher the mean radiant temperature the lower the air temperature can be for the same level of comfort.

The analogy of this is a person sitting in the middle of a cold room, with cold walls all around - turn on a radiant electric fire and they will quickly achieve an

acceptable comfort level, although the air in the room has not warmed appreciably. If, instead, an electric convector heater is switched on, they will have to wait until the air temperature has risen considerably higher, before



Typical manifold detail which would be normally concealed in a recessed wall cabinet or in a floor trap.

they achieve the same level of comfort, because the mean radiant temperature is still low.

Although the floor surface temperature with underfloor heating is quite low (typically 28-34 degC), because there is such a large area involved, the mean radiant temperature in the room is considerably raised. As a result, comfort conditions can be achieved with the air temperature around 2 degC lower than would be required with other forms of heating, which equates to a 12-14% reduction in energy consumption. The lower floor surface temperature also causes far less convectional air movement than with a localised high temperature heat source, resulting in far more

equable room temperatures, and reduced potential for condensation problems. Stratification - a cause of increased heat loss due to raised temperatures at high level - is also drastically reduced, which is a very important

consideration in the design of heating systems for high spaces, such as warehouses and churches. Another major advantage of underfloor heating is the absence of visible piping and heat emitters, giving complete flexibility of room layout and positioning of partitioning (and, incidentally, freedom from vandalism) and there is virtually no maintenance requirement for the distribution system. And, of course, no radiators.

In-floor heating means furniture and fittings can go exactly where you want

them, rather than where your heating system dictates. Suitable for any room and floor covering, it's just as happy in large, public areas, particularly places such as nursing homes where the hot surface of a radiator could be a danger to residents.

The thermoplastic rubber piping, manufactured in environmentally-controlled conditions in Kee's own Banbridge factory in Northern Ireland, is more durable and more flexible than the polybutelene and polyethelene material used in other systems.

Consequently fitting is easier, attachment points are fewer and installation costs are lower.

What's more, the three small tubes not only require just a fraction of the water content of a single tube, but they also have a much greater surface area giving a faster heating response and much reduced heating bills. In fact, the Kee system requires a water temperature of only 57°C to provide a luxurious all-round warmth, compared to 82°C for conventional radiators, providing a saving in running costs of between 12 and 25%.

ECOTHERM LTD

Under Floor Heating Specialists

88, Ranelagh Village, Dublin 6.
Tel: (01) 973695 Fax: (01) 973188



Irish Distributors of KEE Radiant Floor System

Employers Advice Line

David Gannon has over 20 years experience in dealing with employee relations matters.

Those years of experience were gained in the Federated Union of Employers (9 years); Clerys (2 years); and

Switzer Group (11 years). He is now operating as an independent personnel consultant in all areas of business. He is also a serving member of the Employment Appeals Tribunal.



NEW SAFETY REGULATIONS

A series of EC directives relating to health and safety in the workplace have been implemented into Irish law through Statutory Instrument No. 44 of 1993. These new regulations flesh out the provisions of the Safety, Health and Welfare at Work Act, 1989. Both wideranging and detailed, they are designed to ensure that what are often euphemistically called, and tolerated as, occupational hazards or risks of the job are reduced to an absolute minimum.

The regulations include the new Framework Directive covering General Safety and Health Provisions, Use of Electricity, First Aid and Accident Reporting Requirements. There are also Directives, often referred to as the Five Sister Directives, covering a Safe Place of Work, Safe Use of Work Equipment, Personal Protective Equipment, Manual Handling of Loads and Display Screen Equipment (VDUs). The very titles indicate how wideranging these regulations are and they will be dealt with separately over the next few months.

General safety and Health Provisions

This Regulation provides that health and safety surveillance must be available to all employees where the risks justify it. Employers must obtain advice on safety matters from an outside specialist or else employ a person or persons competent in health and safety matters. The approach required of all employers is based on prevention of any state or activity which might harmfully affect the health and safety of employees, whether full-time, part-time, temporary, fixed term or permanent, direct or agency supplied, employed or self-employed.

General Duties of Employer

Every employer has the duty to take measures necessary for the safety and health protection of employees. This duty is based on General Principles of Prevention, set out the first Schedule of the Regulations. These principles include the avoidance of risks, the evaluation of unavoidable risks and the combating of risks at source. They also include the adaptation of work to the individual, especially as regards the design of places of work, the choice of work equipment and systems of work and adaptation of the place of work to technical progress. The principles also include the replacement of any dangerous article, substance or work system with one which is non-dangerous or less dangerous, the development of an adequate prevention policy, priority to collective protective measures over individual measures and the giving of appropriate training and instructions to employees. The employer also has a general duty to evaluate periodically the risks to safety and health of employees and, arising from such an evaluation, to take the necessary steps indicated by the findings to improve the level of protection afforded to employees.

Duty to Co-Operate

Every employer and every self-employed person who share a place of work with another employer or self-employed person have a

duty to co-operate in implementing any safety, health, welfare and occupational hygiene provisions considered necessary and to co-ordinate their actions in relation to protection from the prevention of occupational risks. They also have the duty to inform each other and their respective employees or safety representatives (or both) of any risks involved in their activities.

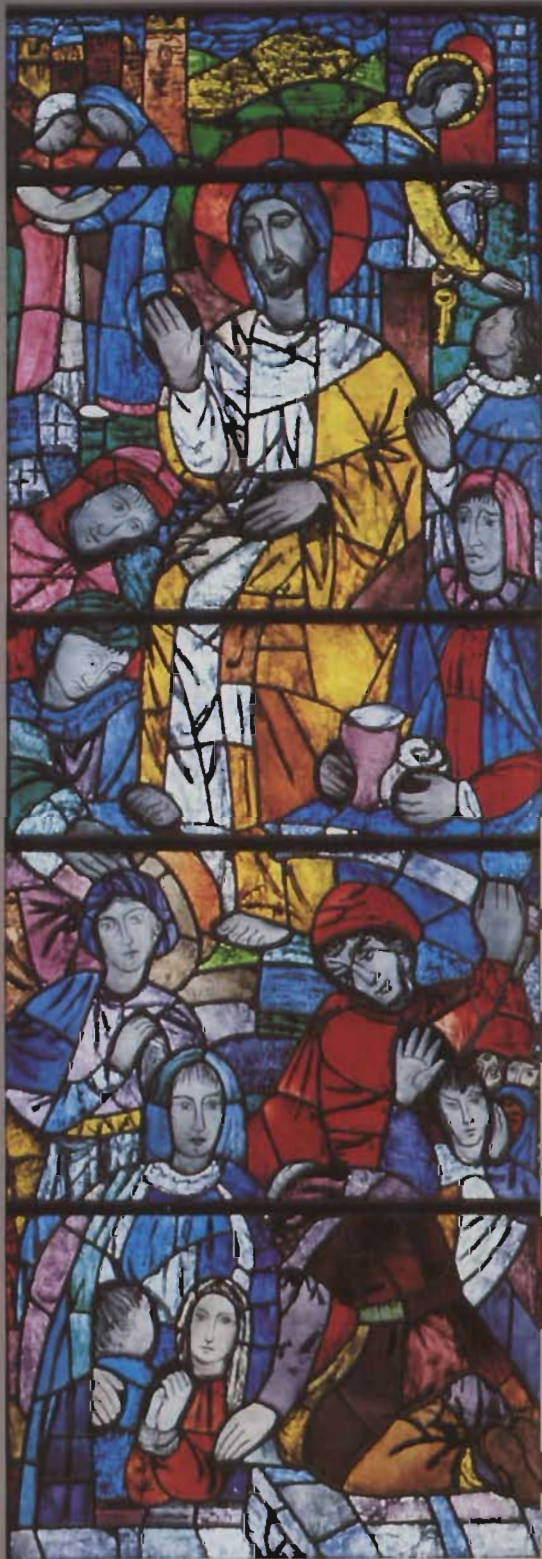
Financial Cost

Measures to secure or improve safety, health and welfare at a place of work may not involve any financial cost to an employee. However, an employer may request a proportionate contribution from an employee in respect of use of protective equipment outside the place of work.

Protective and Preventive Services

Every employer has a duty to designate one or more employees to carry out activities specified by him which are related to the protection from and the prevention of occupational risk at the place of work; such an employee may not be at any disadvantage because of these activities. Where there is a lack of competent personnel at the place of work the employer has the duty to obtain the services of a competent person, whether by contract or otherwise, to carry out these activities, provided these activities may be carried on by a combination of designated employees and such competent persons. Designated employee or other competent persons must be provided with information on factors known to, or suspected of affecting, the safety and health of employees, the risks and related protective and preventive measures, and the measures of the evacuation of employees in emergencies. The employer also has an overriding duty to ensure that those designated to carry out such protective and preventive activities are competent and have the necessary means to assist them.

Next month we will continue with the other matters outlined in the General Safety and Health



Merriott Radiating Style

***Merriott
Radiators Ltd.***

Unit 2,
Broomhill Business
Park ,
Broomhill Road,
Dublin 24

Phone: 01-596209/596213
Fax: 01-596123

part of barlo group plc.

Dedicated to Quality Customer Service

While it very difficult to define quality, and especially quality service, virtually everyone recognises it whey they experience it. It has become the critical factor in business in recent years. Few companies have applied themselves as diligently — and successfully --- to the concept as Barlo.

The quality ethos which permeates throughout the whole organisation has seen the fortunes of Barlo Group Plc expand and develop at a time when the building services sector is experiencing a severe downturn. Apart from achieving market leader status on the home front, the company has made significant inroads internationally, beginning with the UK, where it has always been strong, and then moving further afield to establish a reputation for itself in Europe. To date Barlo are active in eight European countries including France, Germany and Holland.

They have established an office at Geel in Belgium to support this growing customer base in Europe. Furthermore, they were the only fully-owned Irish company to exhibit at the recent ISH Fair in Frankfurt. This expansion phase has also seen the acquisition of the Merriott patent rights and manufacturing plant and their incorporation into the Radiator Division's Clonmel

panel radiators soon became market leader on home soil leading naturally to expansion into the larger UK market.

These radiators evolved in the ensuing years to become the products we are familiar with today. Virtually all radiators now feature convector fins as standard and Barlo were among the first to utilise these on stock radiators. Their

stock range numbers 176 sizes in six heights and 15 lengths. Non-stock products are available on short lead times and extend the choice to approximately 3000 options.

Sales on the home market continue to grow despite the current state of the industry.

This is due to good product design, range, competitive prices and an experienced sales team under the direction of Oliver Fitzpatrick, Sales Director.

In 1990 Frank J Donohoe joined the Barlo team to develop a presence in the commercial and

Everyone at Barlo and Merriott is customer driven. This, in effect, means a dedicated team of almost 300 professionals totally committed to satisfying the needs of the customer

production facility.

The Radiator Division now employs nearly 300 people with additional jobs created in the supply industries associated with radiator manufacture.

Far too often long established companies — particularly the successful ones — suffer from the inability to adapt and change with the changing face of the marketplace within which they operate. With change comes courage. Courage to make decisions, be they difficult or unpopular, ensures long-term survival. Barlo has faced these challenges and the strategy adopted has proven to be a blueprint for growth and success. Barlo was founded to supply the domestic radiator market in Ireland in the early 60's. Their range of well designed, Rolled Top pressed



Frank J Donohoe, Merriott Sales Manager



Ollie Fitzpatrick, Barlo Sales Director



Michael Morrissey, Distribution Director

specification markets. These markets involve considerable contact with architects and consulting engineers to ensure radiators are integrated into the building design. These requirements necessitated an additional range of radiators to supplement the existing Barlo range.

In 1991 Barlo acquired the assets of Merriott radiators and in doing so acquired the product range, style,

and versatility it required to service this market. The Merriott range offers the designer over 12000 choices in model type, height, or length. A stock range has been introduced to facilitate customers with immediate needs.

Frank, as Sales Manager for Merriott, has responsibility for the continued development of sales for Merriott products throughout Ireland.

Barlo, with tubular and panel ranges, are now in the unique position of being able to supply both the domestic and commercial markets with either radiator style.

With the arrival of Quality Assurance Certification architects, consultants and contractors expect a high level of professionalism from their suppliers. Barlo's response to these requirements was to seek BS5750/ISO9000 certification for its plant operations, customer services and management procedures.

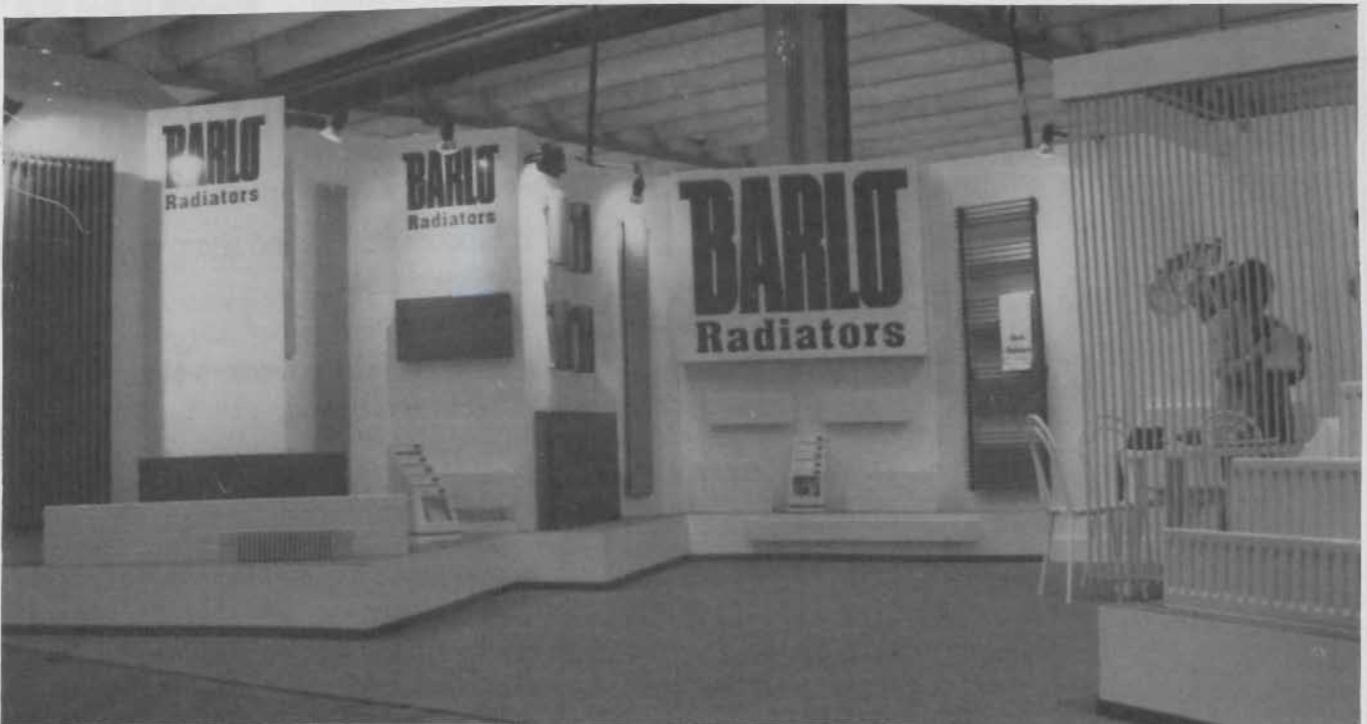
This, in addition to the various BS, DIN and NF certificates already awarded, illustrates the company's commitment to a quality product supported by a Quality Service.



Treena Caron, Customer Services Manager

A Customer Services Department was established specifically to ensure that all queries are dealt with promptly and efficiently. This department is under the Managership of Treena Caron whose support team can handle all calls regarding prices, product information etc.

All order processing is handled via a computer network to ensure accurate processing of information and also to permit precise up-to-the-minute information on order



The Barlo Group was the only fully-owned Irish company to exhibit at the recent ISH Fair in Frankfurt. They were very encouraged by the level and quality of enquiries, particularly since they have just established a European support office in Geel, Belgium.

status within the factory. The existing research and development programme is being expanded to continue developing new products and designs for the future. Typical new products launched in 1992/1993 are new towel radiators for Barlo and Merriott as well as room dividers and low surface temperature (LST) panels.

Software supports in the form of heatloss programmes have been developed to assist the customer in product selection. There is an ongoing appraisal of production equipment and procedures to ensure that Barlo and Merriott employ the latest state-of-the-art computer controlled plant. This permits infinite flexibility in meeting customer requirements on radiator type or availability. Today, more than ever, customers want to

limit their stockholding yet, at the same time, expect to be able to draw off from the supplier or manufacturer at short notice.

Apart from achieving market leader status on the home front, the company made significant inroads internationally, beginning with the UK (where it has always been strong) and then moving further afield to establish a reputation for itself in eight European countries including France, Germany and Holland.

Distribution Director Michael Morrissey oversees a just-in-time distribution system which facilitates next day deliveries for standard stock items.

Deliveries are either from the manufacturing plant in Clonmel or their new large Dublin warehouse.

Flexibility is the keyword at Barlo and Merriott. Urgent requests are accommodated at all times. The ultimate objective is to satisfy the needs of the customer in a manner which meets their requirements, rather than one designed to suit those of Barlo or Merriott.

The foregoing clearly illustrates that everyone at Barlo and Merriott is customer driven. This, in effect, means a team of nearly 300 professionals totally committed to satisfying the needs of the customer.

The commitment to customer service is a statement of intent in respect of quality service. It is a self-perpetuating mechanism, deeply entrenched in both companies' trading philosophies, intended to ensure long-term, prosperous trading partnerships with all customers.

Barlo Heating Limited

Unit 2, Broomhill Business Park, Broomhill Road, Dublin 24.

Tel: 01- 596099/596115. Fax: 596123.

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Warmth with style starts at the Top

ADVANCE SALES LEADS

et al.: BS News

Newmarket Information, the Dun Laoghaire-based construction information company, provides advance information on new construction projects nationwide -- all potential leads for contractors, sub-contractors and suppliers. The company publishes information in the weekly CIS report which provides full project details, contact names, addresses and telephone numbers, design team details and tendering and construction schedules. The following listing is provided by CIS Report and gives a brief description of the types of projects covered. To obtain information on the service phone 01 - 09476/2809557.

Donegal

Weavers, Comer Yarns Donegal Limited are to occupy the new premises currently under construction by Joseph McMenamin and Sons (Stranolar) at the Industrial Estate, Bunbeg, County Donegal. The single-storey spinning mill, measuring 12,100 sq m will include a production area, warehousing, a service block and offices. Construction work started in December 1992 and is due for completion in October 1993. Comer Yarns plan to occupy the premises later this year for the manufacture of water spun weaving yarn. The company currently lease premises at the Derrybeg Industrial Estate from Udaras na Gaeltachta. The new factory will be two and half times bigger than the existing leased premises. The Canadian controlled Comer Yarns consortium was set up in the North West in the early 70's and will invest £10 million in plant equipment in the new facility. An additional sixty-five

jobs have been earmarked for the new factory to supplement the existing workforce of 150.

Sligo

Abbott Ireland Manufacturing Organisation has been given the go ahead by the local planners for the use of the existing advance factory No. II Finisklin in Sligo for the repair and manufacture of electronic pumps, for the erection of a company sign and for building alterations and additions at an estimated cost of £200,000. The existing building measures 3,619 sq m and is located on a 2,909 hectare site. The work will involve carrying out internal alterations and the erection of office space and a loading bay. Archbrook Engineering of Sligo have been awarded the main building contract for the works which will be completed in May.

Monaghan

Cold Storers, Norish (Castleblayney) Limited have

been granted planning permission for the erection of an extension to the existing cold stores and loading bay facilities at Tullynamalyra, Castleblayney, County Monaghan. The single-storey extension, measuring over 3,000 sq m will be built in a steel frame.

Kerry

Iase Ui Mhathunai Teoranta and Ballyhea Fisheries have been granted planning permission to retain the revised extension and office extension at the existing fish processing plant and to extend the existing fish processing premises at Ballyhea, Dingle, County Kerry at a cost of over £1 million. The development is to include offices, stores, revised drainage, an effluent treatment plant room, processing areas, yards, cold store and ancillary services.

Waterford

The Electricity Supply Board is planning to construct a new office, workshop and stores building with associated car parking, site development and landscaping at the existing site at Grace Dieu Road, Waterford. The three-storey traditional built building, will cost over £1 million to construct. Construction is due to start in three to four months time and will take six months to complete.

Dublin

Forest Laboratories Incorporated of New York is to set up a major new pharmaceutical facility in the former Toho plant on the Clonsaugh Industrial Estate, Coolock, Dublin 17. The company will take over the

"shell" building and undertake major modifications to the factory. Total investment in the project will be in the order of £9.2 million. Over 110 new jobs are expected to be created at the plant over the next six years.

Dublin architects Lorcan Lyons and Associates have been awarded the design brief on the project. The existing 8,600 sq m facility is expected to be ready to allow production to begin in twelve months time. Up to 35 people will be employed during the refurbishment and fitting out of the building which is due to begin in June 1993 and will be completed by March 1994.

In addition to an existing cardiovascular product, used for the relief of pain and symptoms of angina pectoris, the new facility will manufacture "Flumadine". "Flumadine", an anti-viral agent for the prevention and treatment of Influenza A, uses Forest's "Synchron" controlled release technology.

This will be Forest Laboratories second investment in Ireland. Its existing facility is Tosara Products Limited in Baldoyle, County Dublin, which it acquired in 1987. Currently employing 40 people, Tosara manufactures "Sudocream" - an antiseptic soothing cream, which is the brand leader in Ireland and the UK in the treatment of nappy rash. Tosara will continue to operate totally independently of the new facility.

Forest Laboratories Incorporated, with headquarters in New York, develops, manufactures and markets both branded and generic forms of ethical drug products which require a doctor's prescription, as well as non-

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prescription pharmaceuticals which are sold over the counter. The Corporation is one of the fastest growing pharmaceutical companies in the US with annual sales growth of 25%. It employs 1,200 people at four locations in the US and also the plants in the UK and Puerto Rico. Forest products are marketed principally in the US, Europe and Asia.

One of the Forest's better known products is

"Acrobid"/"Aerochamber", a metered dose steroid inhaler for the treatment of asthma. The company also has a number of products in the final stages of clinical trials, the best known being "Synapton", a drug used in the treatment of the symptoms of Alzheimers Disease.

Pharmaceutical company. Organon (Ireland) Limited, has sought planning permission for the construction of extensions, costing over £1 million, to the existing laboratories and offices at their plant at Drynam Road, Swords, County Dublin. The 1,285 sq m extension will include extending over the existing link building and the construction of a single-storey extension to the side. Work will start in early June.

Mr. Tom Moran (trading as T & S Taverns Limited), the proprietor of the Red Cow Inn is planning to build a twenty-four bedroom extension at second floor level of the Red Cow Inn, Naas Road, Dublin 22. Also included in the application for the necessary planning permission is a ground floor extension consisting of new toilets and a new entrance to the nightclub, a new lift and internal alterations.

Wexford

Building contractors, Byrne and Byrne Limited of Bunclody started work last month on the construction and replacement of a fire damaged meat processing plant, costing in excess of £1 million at Ryland, Bunclody, County Wexford for Slaney Cooked Meats Limited. The new single-storey building, measuring 5,788 sq m will consist of coldrooms to the existing manufacturing area.

Cork

£2 Million Mixed Development
Proposed for Cork.

Developers, O'Shea Holdings have been granted planning permission to erect a small business park entailing an office and retail development at 14 and 15 White Street and No. 1 Buckingham Place, Cork. The 2,119 sq m development involves the refurbishment and preservation of two and three-storey "perserved" buildings and the erection of eleven new three-storey units. The development is part of the Urban Renewal Scheme in Cork and investment will be in the order of £2 million.

Meat Processors, Galtec Meats (Charleville) Limited have been granted planning permission for modifications, improvements and extensions to the existing facilities with ancillary services and the retention of the existing marshallng area, chill and altered roof lines at Ardnageehy and Farranshonikeen, Carleville, County Cork. Investment is to be in the order of £1 million. The project is to take 15 months to complete.

Balanced – flue Systems for Commercial Boilers

Davies of Dublin are distributing the Monodraught chimney system which has been developed for the complete range of commercial boilers currently available in Ireland.

Suitable for gas or oil-fired boilers, the Monodraught system offers all the advantages of balanced-flue condition normally associated with domestic boilers, but applies this technology in a vertical format.

There is no limit to the size or number of boilers which

can be used. Up to eight boilers can be connected to one Monodraught system and this design uses the boilerhouse rather than the boiler casing as the balancing chamber.

The advantages of this arrangement are considerable. Firstly, the balanced-flue condition created guarantees the total elimination of downdraught, regardless of higher surrounding buildings, secondly, 1m-high balanced-flue chimney system eliminates the need for tall chimneys. Furthermore, the system uses a totally enclosed boilerhouse which eliminates the need for external louvres for combustion and ventilation air, or ducting to high and low level.

The application of all

Monodraught systems must comply with the requirements of the Clean Air Act and calculations are provided by the UK company for each individual project. For applications of up to 1000KW, a 1m chimney height is all that is required for gas-fired installations. This 1m height is also suitable for oil-fired installations up to 250KW. Output in excess of this figure requires a slightly higher system.

There is a minimum distance required to window openings which varies according to the output of the boiler. Monodraught produces a table of minimum heights and distances to window openings which is included in their brochure. There are three types of Monodraught system available — a stone

finish; simulated brick finish and a lightweight glassfibre system. In all cases the system is purpose-made in a colour to match the building fabric.

The Monodraught system was first invented more than 30 years ago by an aeronautics engineer in England, William Stranks, who took out a patent on his new flue design. Since that time the system, although following exactly the same principles as originally laid down by Mr Stranks, has expanded to include more than 22 new flue designs. The latest systems are architectural turrets, dome top systems, weathervanes and venetian turrets, all of which incorporate the same principle of taking combustion and ventilation air from the top of the system, which is in the

Monodraught Balanced Chimney Systems



BALANCED-FLUE TURRETS

The latest development from Monodraught in vertical balanced-flue technology range of classic architectural features are combined in a range of six different styles to provide all the advantages of vertical balanced-flues with a most attractive housing.

RIDGE TERMINALS

The systems are designed to blend with the roof covering and finishes whilst at the same time provide a vertical balanced-flue arrangement. Four sizes are available to suit flues from 150mm to 760mm i.d.

FEATURES OF THE SYSTEM

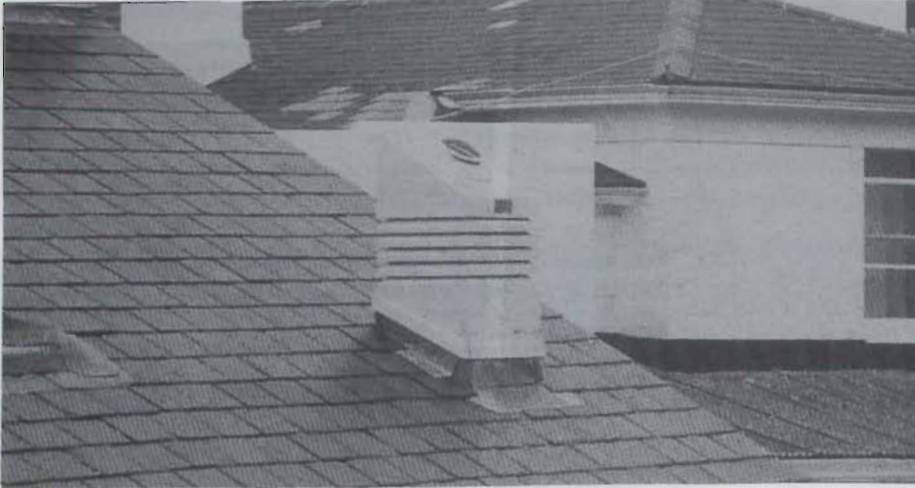
- Guaranteed to eliminate downdraught regardless of high surroundings.
- Operates on just 1m. of chimney height.
- Provides a neat, attractive, simple, low cost chimney system.
- Enables any single storey building to be used as a boiler house eliminating the need for tall expensive and sometimes unsightly chimneys.
- Provides clean controlled supply of combustion and ventilation air.
- Virtually maintenance free with nothing to rust, rot, wear out or breakdown, guaranteed for 60 years.
- Ensures a 'balanced' condition in the boiler house and provides the Customer and Specifier with all the long term benefits and economies of balanced flue combustion.

DAVIES
PLUMBING HEATING
BUILDING PROVIDERS

Your Local Agent:
Davies of Dublin,
6-8 Richmond Avenue,
Fairview, Dublin 3.
Telephone: 01-376076.
Fax: 01-372863.

Monodraught

CHIMNEYS AND REFRACTORIES



The angular shape of the truncated top Monodraught square GRP 750 system provides the ideal termination to prestigious buildings. The colour required can be selected from the company's standard colour range, to any BS or RAL colour. Details from Davies of Fairview.

same pressure zone as the flue outlet, thereby creating the balanced-flue condition. The company has also launched a range of balanced-flue ridge terminals for boilers up to 6MW output.

Kevin Long of Davies acts as the representative for Monodraught in the Republic of Ireland and will provide prices, quotations, technical advice and will handle all the delivery arrangements.

The Monodraught system is recommended by all leading boiler manufacturers and is specifically recommended by Stelrad for use in connection with their Super Series boilers by providing the ideal flueing arrangement and producing a constant supply of clean fresh combustion air, free from dust and dirt. A domestic range of stone and brick finish vertical balanced Monodraught flue systems is also available for domestic solid fuel boilers.

Further information from Davies of Fairview Ltd, 6-8 Richmond Avenue, Fairview, Dublin 3. Tel: 01-376076; Fax: 01-372863.

The Exhausto Electronic Chimney System for Boilers

Located on top of the chimney stack, the Exhausto chimney fan produces a negative pressure along the full length of the flue. The fan enables you to meet required air speeds at flue exit. It provides sufficient draught for correct suction at boiler outlets and overcomes the pressure loss in the flue.

These are few examples of problems overcome by an Exhausto chimney fan:

Inadequate updraught in the existing flue caused by wind pressure zones, restricted air supply or too small indoor/outdoor temperature differences;

Condensation caused by inadequate flow (the flue is too large);

Inadequate updraught from high efficiency boilers

producing low flue gas temperature;

Excessive number of bends/elbows creating inadequate flow due to pressure loss;

Compensate limitations of existing flue system when boiler capacity is increased;

Horizontal flue runs due to site limitations;

The need for a higher updraught than is produced by a short chimney;

Incorrect combinations of dimensions of boiler flue pipe, header and chimney.

A boiler with a traditional chimney may suffer from the sluggishness caused by low flue temperature at boiler start up, from intermittent airflow in the flue or from pressure zones at flue exit. The Exhausto chimney fan type RSV overcomes these and other disruptive influences offering correct an controllable updraught to provide combustion efficiency and reliability.

In all cases, the powerful vertical column of the RSV fan offers substantial advantages allowing lower height of the flue and/or

enhanced dilution of the concentration in the flue gases.

The new KTR 20 RS Constant Pressure Regulator is a major step forward as it automatically adjusts the RPM of the fan to maintain a constant negative pressure for different volumes of flue gases. This ensures optimal utilisation of the fuel at different loads.

This system may be installed to maintain the correct negative pressure in the boiler flue for pressure jets burning oil, or LPG.

The Exhausto Electronic Chimney System for boilers may be used for single or modular boiler systems and consists of :

Exhausto chimney fan type RSV (capacities up to 1.1 m³/s - 4000 m³/h);

A probe in the flue connected to sensor XT (pressure transducer) which is linked electrically to;

control unit KTR 20 RS offering a constant negative pressure from 1 to 250 pa (0) - 25.5mm Wg) and which automatically adjusts the fan RPM to maintain the pre-set constant negative pressure in the flue despite varying volumes of flue gases.

The KTR 20 RS control unit has a dial for setting of the operational negative pressure, indicator light for increased fan speed, indicator light for reduced fan speed and an operating light. detailed installation instructions with wiring diagrammes and commissioning procedure are supplied with each unit.

When a modular boiler system is used with a traditional chimney, the flue



D.C. Compute Air Ltd.

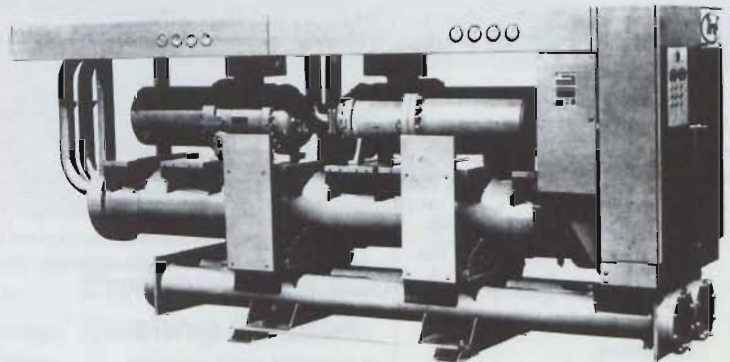
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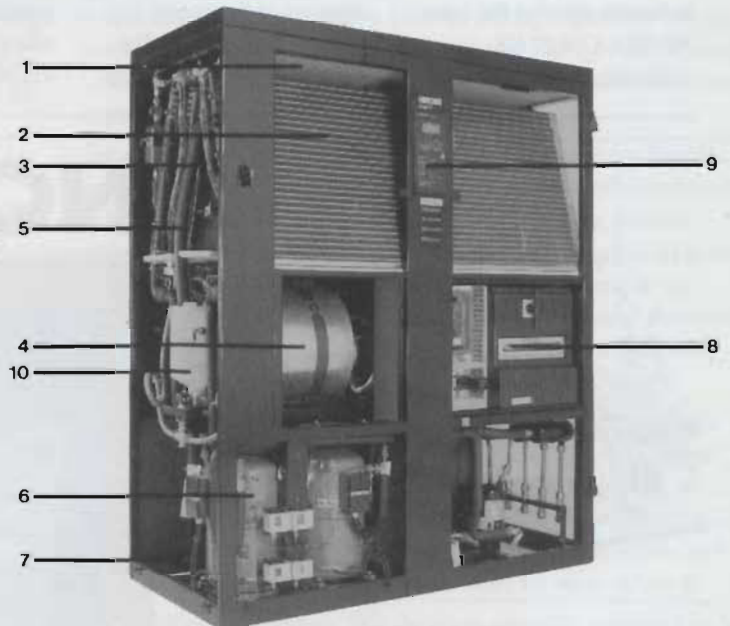
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9. hiromatic
10. Humitronic humidifier



- ROOM AIR CONDITIONERS
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- AIR COOLED & WATER COOLED SYSTEMS

• RANGE 5 Kw - 80 Kw.

• CONTROLLED BY MICROPROCESSORS, LOW NOISE LEVEL, RELIABLE PERFORMANCE.



CHIMNEYS AND REFRACTORIES

has to be oversized for the average operation in order to handle peak loading. The disadvantage of the traditional flue is overcome by using the Exhausto Electronic Chimney System to Boilers to give cost reductions, increased combustion efficiency and enhanced operational benefits.

This system is advantageous for boiler room refurbishment when boiler rating is increased by making it possible to use the existing flue — the fan overcomes the site limitations.

Description

The Exhausto constant pressure regulator type KTR 20 RS is used with the Exhausto chimney fan types RS/RSV KTR 20 RS automatically adjusts the



Monodraught GRP 600 circular system from Davies of Fairview, ideal for installation where stainless steel flues and cowls are unsuitable.

RPM of the fan to maintain a constant static negative pressure in the flue system despite varying volumes of flue gas.

This ensures optimal utilisation of the energy, even at varying loads. The chimney fan must always be

operating during combustion. The fan is to be installed according to its installation instructions.

The KTR 20 consists of a control panel with a setting potentiometer range of operation 1-250 Pa, and two indicator lights for increased

and reduced motor speed.

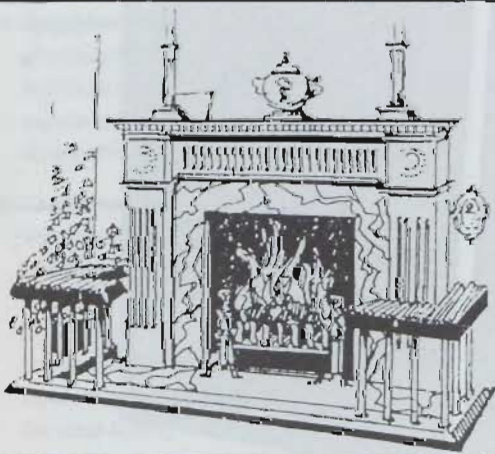
A pressure sensor (XT-sensor) supplied in a small box is to be fitted near the measuring position and is connected to the control panel by means of the low voltage cable.

An operating switch should be installed immediately before the KTR20 RS.

The XT sensor is only suitable for outdoor fitting under special circumstances.

The XT sensor must not be located in a chamber or similar which isolates it from the atmospheric pressure being the reference pressure.

Available from Heating Distributors Ltd, 145/147 Richmond Road, Dublin 3. Tel: 01-375144; Fax: 01-370531.



Don't despair - the Exhausto RSG is mounted on the external wall and is used with an open gas appliance, made to BS5258.

NO CHIMNEY?



EXHAUSTO RSG 133
The Electronic Chimney

Your Clean Air Act



Heating Distributors Ltd.

Colt Moves to New Premises in Bray

Jerome O'Hea, Chairman and Managing Director of Colt Group (the company which holds the colt franchise in Ireland) hosted a reception at the Engineers Club, Clyde Road, Dublin 4 recently to mark the move by Colt Ventilation Ltd to their new premises in Bray, Co Wicklow.

Colt Group was originally founded by Jack O'Hea along with a Mr W H Colt in the UK in 1925. Jack O'Hea's father hailed from Kilbrittain in West Cork today his grandson, Jerome O'Hea, heads up the Colt Group, an international company renowned for its heating, ventilation and fire engineering systems across the world.

Colt Ventilation Ltd is in the business of installing fire and general ventilation systems in industrial, commercial, retailing outlets and living accommodation. It is also in the business of providing heating, louvre and solar shading systems. Colt Ventilation Ltd offers a full design, manufacture and installation service for all their systems. They also have the facility to call on the considerable expertise and on-site knowledge of the Colt Group at any time.

Colt have had a presence in Bray since 1958 and are long associated as the suppliers and fitters of the Colt Co ventilator. The product has kept pace with change and was developed into

the present louvred ventilator known as the 'Seefire' and 'Firecracker'.

In the intervening years, the Colt people in Bray have completed over 7,000 separate installation projects around the country which include the Stephen's Green shopping Centre in Dublin.

Since 1982 Colt Ventilation Ltd has been managed by Ivor Davies who has steered the company through considerable change in the past 10 years, including the acquisition of the business here, to become concessionaires for Colt Group in 1988.

Today, Colt Ventilation Ltd has built up considerable ties with local manufacturing units including Sandyford Engineering Ltd, Goodbody Colour Coatings Ltd and Harold Engineering Ltd, generating over 50% of its product needs locally.

The new premises will house the company's design team, sales personnel, site workers and sub-contractors, together with management team — Bill Donnelly, Shirley McAuley, John Treanor, Paddy O'Sullivan and Frank Larkin.

Colt Ventilation Ltd are currently involved in the installation work at the Sandoz Project in Co Cork, Proctor & Gamble warehouses in Nenagh, Courtyard Development in Letterkenny and the Galway Shopping Centre together with over 60 smaller projects around the country.



Jerome O'Hea, Chairman and Managing Director of Colt Group (left) pictured with Ivor Davies, Managing Director, Colt Ventilation; Richard Grainger, President, Institution of Engineers of Ireland; and John Purcell, Chairman, CIBSE at a reception to mark the move by Colt Ventilation to their new premises in Bray Co Wicklow.

Environment 2000 for major Dealing Centre

The new Thames Exchange building by Southwark Bridge in the city of London will be home in one of Europe's major financial dealing centres. This presented project managers, E C Harris, and consultant engineers I E Greator & Partners with a problem.

The speculative development was fitted out with a VAV air conditioning system which was insufficient to meet the cooling requirements for the four large dealing rooms. Additionally, the time schedule only allowed 12 weeks to upgrade the building's cooling capability from initial concept to practical completion.

The answer to their problems was found by specifying Atlas Wright's new environment 2000 underfloor air conditioning system (distributed in Ireland by Tempair Ltd). This advanced variable volume, variable temperature system utilises the raised access floor as a supply air plenum by filling the entire floor void with filtered and conditioned air by localised means of air handling units. Twenty-three of these units have been installed by Wright London Ltd providing an additional cooling duty of 80W/m² to an area of 5,000 sq m.

The supply air is directed to any location with the occupied space via terminal units set discreetly within the floor and around the perimeter. The demands of the dealing rooms required 226 floor terminals and 24 perimeter units. The flexibility of Environment 2000 means that should the room layout need to be changed, the terminals can be quickly and easily raised and repositioned without the need for major upheaval.

By specifying Environment 2000 the whole procedure could be kept within a tight schedule because the system requires no ceiling installations, so work on the air conditioning and extensive IT cabling could be carried out in tandem. Environment 2000 could also utilise the existing Tate Floor System.

The new occupants will benefit from a system which allows each terminal unit to be independently set to provide every individual with their own preferred thermal conditions from one workspace to the next. As the plenum can be accessed for cleaning and air is continuously filtered at local level, occupants will also benefit from a healthier working environment. The entire system also operates at ultra-low noise levels to eliminate noise disturbance.

The total flexibility of Environment 2000 is achieved without the need for environmentally-harmful refrigerants within the occupied space.

Sorry McCarrick!

In reporting McCarrick Woods' move to new premises last month, the gremlins unfortunately contrived to work against us.

The correct address is Ardree House, 38 Northumberland Avenue, Dun Laoghaire, Co Dublin. Telephone and fax numbers remain unchanged.

If it has to be air or radiation....

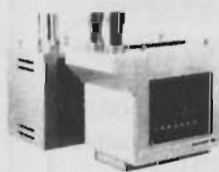
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New Argo Series from Tempar

Tempar have recently extended their project portfolio with the introduction of the Argo-branded new series of split-type cooline only and Heat Pump Air Conditioning Systems.

These projects are the result of a joint venture between the Italian manufacture of the systems and a major Japanese Corporation.

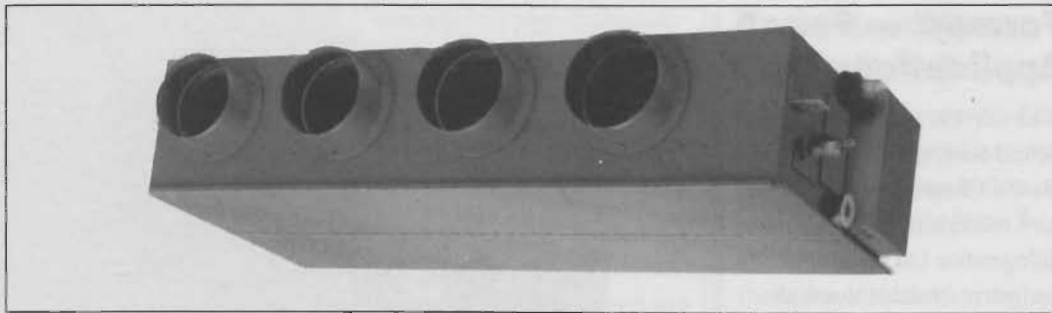
The project technology employed is essentially Japanese and system features include Microprocessor Control, Sky diagnostics, in-built daily timer programming and system controller LCD display.

System indoor sections are of 4-way air discharge ceiling cassette, ceiling ductable, ceiling suspended, wall mounted and floor mounted configurations.

System outdoor sections are extremely compact and made of a rustless and weatherproof material with autovibrating and sound-absorbing insulation to ensure extremely quiet operation.

The 3-phase twin rotary compressors, large surface area heat exchangers and highly-efficient helical fans ensure high performances with limited running costs and in accordance with the most rigid safety standards.

System refrigerant, like R410A, can be up to 50 metres long with system section height differences



ARGO AD 136 HW 4-outlet split-system air conditioner with heat pump from Tempar Ltd.

of up to 50 metres.

ARGO Systems are manufactured under the most stringent quality practices and total Japanese control is exercised in this area throughout all stages of product assembly within the factory. A large section of the factory has been totally revamped and a newly-patented assembly system installed to cater for production of these air conditioning systems.

A full operational test is carried out on all ARGO Air Conditioning Systems before they are cleared for dispatch to customers.

Darcy Retires

Best wishes to John Darcy on his recent retirement from Sanbra Fyffe. John was synonymous with the company for a great many years during which time he also contributed to the well-being of the building services industry at large.

We wish you well John in your retirement and may it be a long and healthy one.

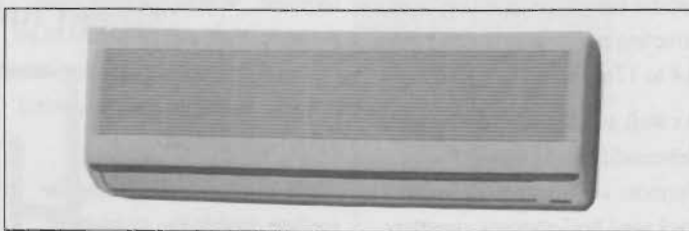
Toshiba: RAS Replacements

Toshiba has replaced four units in the RAS range of split-type room air conditioners with the same number of completely new models. The new models comprise two heat pump units and two cooling only units.

The cooling and heating units are the RAS-09PKH, 2.3kW cooling, 2.5kW heating; and the RAS-13UKH, 3.5kW cooling, and 4.1kW heating. The cooling only units are the RAS-09UKR and the RAS-13UKR, giving 2.3kW and 3.7kW cooling respectively.

Available immediately these new models replace heat pumps RAS-22GKH/RAS-30SKH 30SKH and cooling only RAS-20BK/RAS-30BK. The same compact casing design and styling has been applied to all four indoor units and the range offers the user many added benefits.

These include economy operation, automatic fan speed control, dehumidifier function, remote control of louvres on either set or automatic, 24-hour programmable timer, and a lock button on the remote controller to prevent interference with chosen settings. Details from GT Phelan Ltd, 59 Rock Road, Blackrock, Co Dublin. Tel: 01-2833347/2832622; Fax: 01-2883821.



The new air conditioners from Toshiba share the same compact design and attractive styling and come with a host of features. Details from G T Phelan.

12-Year, 24-Hour Guarantee

"Cast to last and guaranteed 24 hours a day for 12 years" ... this is the latest offer from Hevac Ltd.

It applies to the Sime cast-iron boiler range and covers the cast-iron body which is guaranteed for 12 years against leaks, faults or defects. However, there is a proviso that the installation and operation procedures have been carried out in accordance with the manufacturer's instructions and by appropriately-qualified parties to approved codes and practices. All other parts and accessories are guaranteed for one year.

ABB At The IDHE

The recent IDHE technical evening (sponsored by ABB) in the Engineers Club, Clyde Road, Dublin 4 proved particularly popular with a large attendance turning out for the paper on residential heating controls. The presentation dealt specifically

with the latest advancements in domestic heating controls with the emphasis on comfort control and fuel economy.

Principal speakers were Alan McHardie, Product Manager and Peter O'Malley, Regional Sales Manager, Landis & Gyr Residential Controls.

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TRADE NEWS

Formost — For all Applications

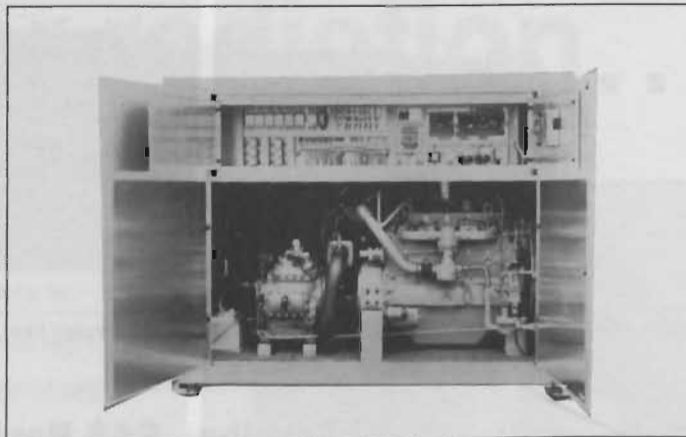
With sole UK and Republic of Ireland distributorships for Marelli-Clima and ETT, Formost Air Conditioning and Refrigeration Ltd has applied equipment available to suit all applications.

Marelli-Clima is the biggest applied air conditioning equipment manufacturer in Italy with a product range that includes air and water-cooled chillers (with and without heat recovery); fan coils; condensing units; and gas-fired heat pumps.

Designed for quiet operation, the chillers are equipped with compressor enclosures and axial fans. Enhanced performance is obtained from discus compressors, used on some units. Chillers are available with multi-compressors on a number of independent refrigeration circuits, thus offering flexible stepped control facilities through a microprocessor.

Also from the Marelli stable is a comprehensive range of modular central station air handling units covering nominal capacities from 0.4 to 17m³/s

As well as swimming pool dehumidification units, Formost's ETT range includes packaged boilerhouses complete with all ancillaries, rooftop cooling, and heat pump units.



Formost claims its natural gas engine driven packaged air-cooled chillers and heat pumps provide substantial running cost savings over electrical equivalents.

One of the more interesting products is a rooftop heat pump that uses 100% fresh air in both heating and cooling mode, thus allowing heat pumps to be applied to restaurants, cinemas, conference rooms and other areas where people assemble. For such applications the quantity of fresh air can be modulated by air quality controlled dampers.

The units can incorporate either multiple DX systems, chilled water, or even a combination of DX and chilled water where close control, high-efficiency and/or variable air volume is required. Where multiple units are used, they can be linked to an optional microprocessor, to provide central or remote control via telephone lines.

All ETT units — including the rooftop double-fan swimming pool dehumidification units — are constructed from high-grade

aluminium casework which carries a 10-year guarantee, even in saline atmospheres. The units can be supplied with heat pipe, evaporator, mixing section, filter, heat pipe and condenser, together with a pool water condenser for use once the pool hall is satisfied.

Reheat options are electric, gas or water and the LPHW can even be supplied from an associated boiler and pumps. Units are complete with fully-wired

controls which can be either Staefra DC or microprocessor where remote monitoring is required.

Formost is currently looking to appoint dealers throughout the 32 countries of Ireland. For detail contact Nigel Rippon at Tel. 00-44-602-455033

Mitsubishi Electric Open Days

Earlier this month Mitsubishi Electric's Air Conditioning Division hosted a very successful 2-day "open house" to which all interested industry representatives were invited.

Mike Sheehan, Air Conditioning Manager, hosted the occasion, supported by other Mitsubishi Electric personnel. Managing Director Fergus Madigan was also in attendance to meet and talk with customers when required, as were representatives

HCF Expands Chiller Range

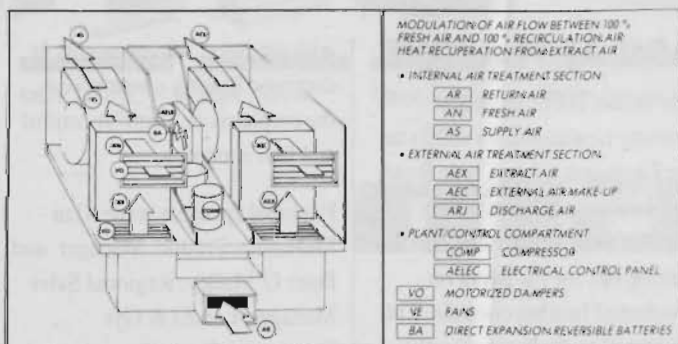
The recently-expanded HCF range of liquid chillers introduced by D C Compute Air Ltd feature a screw-type compressor used in conjunction with an economiser cycle and high-efficiency compact condensers, and a "Green" credential which includes operating with R22 refrigerant.

Central to the chillers design is the Super-Rotor Compressor unit which features direct drive to the male screw for optimum operating efficiency and low noise levels. Available in either water-cooled version or air-cooled versions, the HCF chiller has from one to four compressors with independent refrigeration circuits.

Each compressor features infinitely-variable capacity control down to 30%. This means that a four-compressor chiller can now unload down to 7 1/2% of total capacity. An electronically-controlled expansion valve minimises overheating in the evaporator.

HCF's climatic microprocessor-based control system controls and monitors the cooling functions, and can control ancillary systems such as water pumps, valves and cooling towers.

Depending on water outlet temperature and condensing temperature, units are available in cooling capacities from 200Kw to 850Kw.





Mike Sheehan, Manager, Mitsubishi Electric AC Division with Sean Carroll, Glowtherm; Dan Dowling, Premier Refrigeration; Joe Brennan, Linde Refrigeration; Frank Coughlan, Linde Cork; and Damien Parlour and Seamus Morgan, Tempar.

of the company's appointed dealer network.

Main talking point throughout the 2-day show was the City Multi R2 air conditioning system.

The world's first multi-split system to achieve simultaneous heating and cooling of up to 10 indoor units from a single outdoor unit, has now become available on the Irish market with the introduction by Mitsubishi electric Ireland of the City Multi 'R2' System Range.

Flexibility of control and versatility in system design are major features of the new range, with a unique BC controller distributing refrigerant for the cooling and heating of individual units while also recovering heat from cooling operations (and vice versa). Savings of up to 20% of annual operating costs of conventional systems are possible as a result.

First launched at last year's H & V Show in London, the "R2"

uses only two pipes throughout instead of the conventional three, which minimises space, time and expense on installation and maintenance.

Designed to give valuable benefits to the specifier, installer and end-user, the R2 Series can accommodate future growth and changes in building layout and can be configured to suit almost any interior plan in either new or existing buildings.

According to Michael Sheehan, Air Conditioning Manager at Mitsubishi Electric Ireland, the new R2 range represents a significant breakthrough in air conditioning technology by providing simultaneous heating and cooling within the same system, yet reducing overall operating costs. "In these recessionary times, such a package should be highly attractive" he added.

Potterton Myson Prima B & C

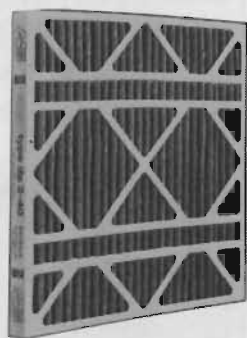
Potterton Myson has unveiled a comprehensive range of cast-iron lightweight, wall hung boilers, with the launch of the Prima B and C.

The new models build on the success of the Prima fanned-flue lightweight boiler launched last year, and heralds the rationalisation of existing Potterton Myson wall hung boilers.

The Prima B has a balanced flue, while the C is open flued. Eighteen models — including four LPG — provide a complete choice for both the contract and one-off market.

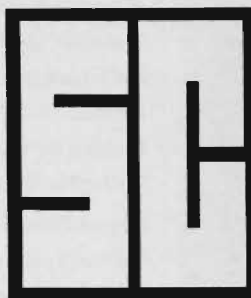
Both models use a new heat exchanger. Additionally, both are compact and economical, featuring a low-energy pilot burner. All Prima models can be range rated.

SEASON CONTROL LIMITED



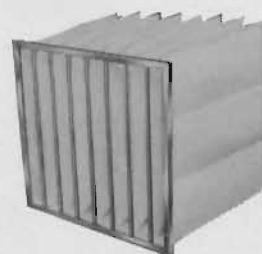
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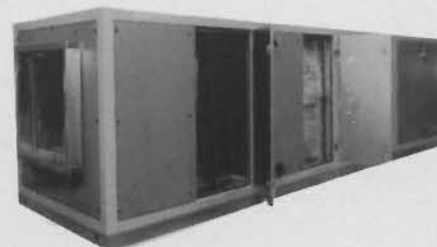
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TRADE NEWS

Both new models can drive traditional gravity or modern fully pumped systems. The Prima B can be mounted on any outside wall and has four models covering outputs from 30,000 to 60,000 Btu/h.

The Prima C is ideal for installation where there is an existing lined chimney or other suitable flue. Like the Prima B, the Prima C is available in four models ranging from 30,000 to 60,000 Btu/h.

SMC/CIBSE STUDENT AWARDS

The Annual SMC Air Conditioning awards in the CIBSE student competition were held recently for the Building Services diploma and degree class in the College of Technology, Bolton Street.

The judges in the competition were Sean Mulcahy, Varming, Mulcahy Reilly Associates and

Export Opportunity for Services Suppliers

Suppliers of air conditioning and refrigeration equipment have a major export opportunity at the BIG 5 Show which opens in Dubai (United Arab Emirates) on 3rd October next.

BIG 5 is a major international trade event which brings together five related exhibitions focussing on building, water technology, air conditioning and refrigeration, cleaning and maintenance, and landscaping.

The economies of each of the six Gulf Co-operation Council (GCC) members — UAE, Saudi Arabia, Bahrain, Kuwait, Qatar and Oman — are buoyant with billions of dollars being allocated to major public and private sector building projects. In a region where the level of local manufacturing is relatively low, there are excellent building services opportunities for exporters.



Sean Mulcahy with Fergus Donaghy, Sean McCarthy, Dermot Brady, Seamus Homan and Brian Brady (SMC Air Conditioning).



Sean McCarthy and Brian Brady, both of SMC Air Conditioning, with all finalists in the competition.

Seamus Homan, Homan O'Brien & Associates.

The awards were donated and presented by Sean McCarthy of SMC Air Conditioning.

Winners were as follows:

Diploma Class — Dermot Brady: Fire Containment in Buildings; Sarah McNulty: CFC's and the Building Services Industry; Michael O'Donnell: Radon.

Degree Class — Fergus Donaghy: Thermosyphon Cooling; Wayne Gaw: Environmental Systems Performance; Brendan Redington: The Application of demand controlled Ventilation to Various Building Types.

Each student made a 10-minute presentation on their projects in the above alphabetical order. Marks were awarded for content, presentation and answering questions on the project.

Trends from ISH

Some 210,000 visitors came to seek information about the goods and services provided by more than 1,800 exhibitors from 33 countries at the recent ISH. The key themes of the event were protection of the environment and energy-savings.

In the sanitation sector, electronics dominate as far as bathroom fittings are concerned, helping to save water and energy. The luxury bath has reached a very high standard, but ISH exhibitors also displayed a wide range of solutions for the small purpose-built bath.

The combined WC and bidet, the ergonomically-shaped bath tub, the jumbo-sized shower-bath with built-in seat and hydromassage unit or steam-injection, combine comfort and functionality, especially for older people.

Exhibitors from the heating sector recorded an increasing interest in energy-saving technology. Catalytic burning systems mean that virtually emission-free heating has become reality.



Vincent Broderick has been appointed National Sales Manager, Potterton Myson Ireland Ltd., Vincent has been with the company for eight years and was formerly Regional Sales Manager for the south and east.

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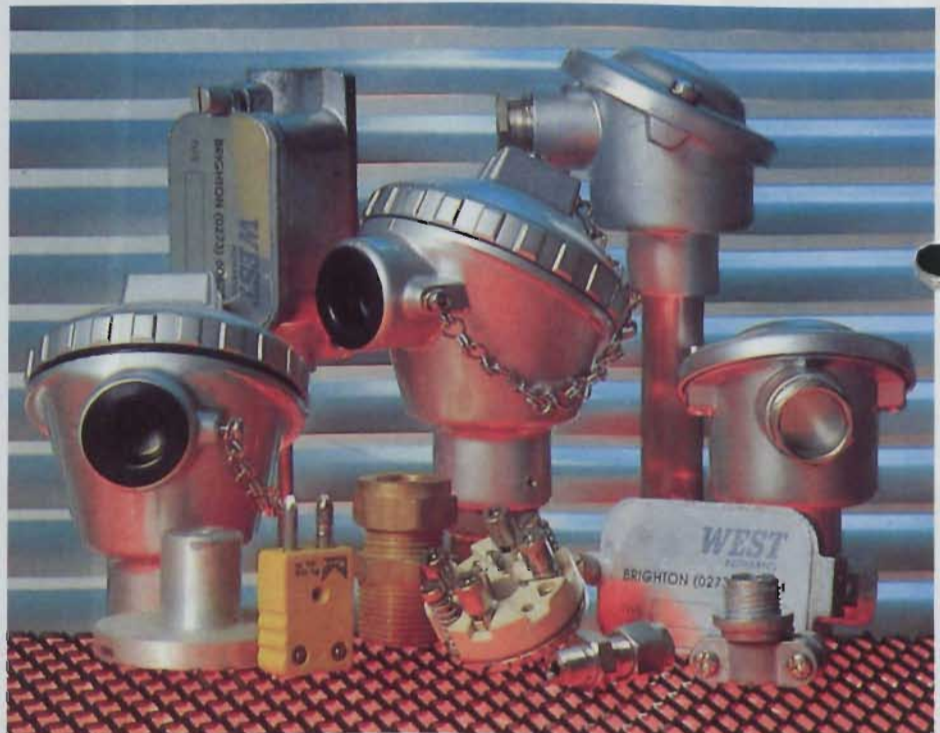
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